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☐	L60	L59 and (docking adj1 client)	11
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☐	L58	((copy$ or duplicat$ or replicat$ or snapshot$) with (client$ or user$ or consumer$ or customer$) with server$ with database$)	1510
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☐	L54	BRODERSEN-ROBERT-A.in.	22
☐	L53	707/202.ccls.	1122
☐	L52	(6754681 6405220 6266669).pn.	4
		DB=USPT; PLUR=NO; OP=OR	
☐	L51	L50 and ((updat$ or chang$ or modif$) adj1 manager)	3
☐	L50	L47 and (replicat$ same database$)	91
☐	L49	L48 and (transaction adj1 file)	3
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☐	L47	L46 and ((database adj1 management) or (database adj1 administrator$) or (database adj1 system$) or (plurality same database$))	657
☐	L46	(707/200).ccls.	1566
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR	
☐	L45	L42 and ((updat$ or chang$ or modif$) adj1 manager)	8
☐	L44	L42 and (transaction adj1 (log or journal))	13
☐	L43	L42 and (transaction adj1 file)	5
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☐	L41	L33 and ((client or server) same outbox)	9
☐	L40	L33 and ((client or server) same inbox)	20
☐	L39	L34 and ((docking adj1 client) or (docking near client))	2
☐	L38	L34 and ((docking adj1 server) or (docking near server))	1
☐	L37	L34 and (docking adj1 manager)	2
☐	L36	L35 and (docking adj1 manager)	0
☐	L35	L34 and (docking adj1 database)	0

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☐	L34	L33 and ((local or remote) adj1 client$)	56
☐	L33	L32 and (local adj1 database)	243
☐	L32	L31 and ((enterprise or host or master) adj1 server)	2630
☐	L31	((database adj1 management) or (database adj1 administrator$) or (database adj1 system$) or (plurality same database$))	94008
		DB=USPT; PLUR=NO; OP=OR	
☐	L30	L29 and (writ$ near ((log or journal) adj1 record))	16
☐	L29	L25 and ((log or journal) adj1 record)	38
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☐	L23	L18 and (transaction adj1 file)	27
☐	L22	(L19 or L20) and ((local or remote) adj1 client$)	38
☐	L21	(L19 or L20) and (workgroup near client$)	2
☐	L20	L19 and (local adj1 database)	37
☐	L19	L18 and ((enterprise or host or master) adj1 server)	282
☐	L18	(L11 or L12 or L13 or L14 or L15 or L16 or L17) and ((database adj1 management) or (database adj1 administrator$) or (database adj1 system$) or (plurality same database$))	4968
☐	L17	(709/207).ccls.	504
☐	L16	(709/203).ccls.	3854
☐	L15	(707/203).ccls.	1335
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☐	L13	(707/202).ccls.	957
☐	L12	(707/10).ccls.	4840
☐	L11	(707/1).ccls.	2266
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☐	L9	L4 and (transaction adj1 file)	3
☐	L8	L4 and ((docking adj1 server) or (docking near server))	1
☐	L7	L4 and ((docking adj1 client) or (docking near client))	1
☐	L6	L4 and ((local or remote) adj1 client$)	3
☐	L5	L4 and (workgroup near client$)	3
☐	L4	L2 and (local adj1 database)	21
☐	L3	L2 and ((enterprise or host or master) adj1 server)	9
☐	L2	L1 and ((database adj1 management) or (database adj1 administrator$) or (database adj1 system$) or (plurality same database$))	142

(6266669 6405220 6092083 5831610 5862325 6088717 6345288 5761499

☐	L1	5987611 5867665 5867667 5870562 6026430 5913032 6453348 5802391 5774661 5778377 5440739 5586322 5832511 5645434 5676553 5734842 5822594 5887132 6042390 5546577 5680615 5758074 6023724 6028848 6029203 6052803 6094659 6108330 6118768 5960420 5924094 6446092 5713013 6421688 5261069 5855014 6311186 6574750 6272675 6052785 5717919 5754772).pn. (6336137 6119129 6249291 6324683 6006229 5796934 5862327 6115744 6199111 5784565 5832484 6148343 6192365 6199110 6230202 5819092 6014674 6178449 6233585 6253228 6519627 5742813 5758077 5809503 5875291 5938737 6026428 6115712 6115715 6163536 6298478 6324681 6363387 5821937 6229540 5764897 5878434 5920863 6098056 5794229 5794228 5812996 5822749 5918225 5455948 5740424 6169976 6266666 6377948 6442552).pn. (5907675 6192370 5987463 5757669 6182117 5713008 5884035 6237020 6385197 6427032 6122633 6163855 5794030 5781910 6061683 6061683 6343299 4881166 6122630 6292830 5889860 6026413 5740423 5958010 5978577 6108660 6119145 6470360 6088659 5918228 6253193 6363488 6389402 6427140 6434535 6182086 5758069 5829001 5857188 5905860 6226651 6226684 6226651 6226684 6237024 5799157 5884327 5890161 5960436 6219675).pn. (6219675 6256641 6330566 6381617 6389431 5408619 5596754 5668943 5933593 6035301 6041309 6128623 6128627 6141651 6209003 6236999 6256637 6289358 6292880 6385643 6427151 6446093 6453319 6058389 5584025 5991771 6047268 5745681 5884309 5878225 6275843 5742845 5893079 5898838 5905908 6189029 6192381 6314425 6366967 6418448 6477527 6477569 5966706 5561763 5727203 5884316 6125366 6182151 6216151 6216151).pn.	195

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1 The interactive performance of SLIM: a stateless, thin-client architecture
Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press
Full text available: pdf(1.79 MB) Additional Information: full citation, abstract, references, citings, index terms

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just be simple, stateless I/O devices (display, keyboard, mouse, etc.) that access a shared pool of computational resources over a dedicated interconnection fabric --- much in the same way as a building's telephone services are accessed by a collection of handset devices. The stateless desktop design provides a useful mobility model in which users can transparently resume their work on any desktop c ...

2 Client/server benefits, problems, best practices
Peter Duchessi, InduShobha Chengalur-Smith
May 1998 **Communications of the ACM**, Volume 41 Issue 5
Publisher: ACM Press
Full text available: pdf(183.23 KB) Additional Information: full citation, references, citings, index terms, review

3 Unix RDBMS: the next generation what are the Unix relational-database vendors doing to survive in the next generation of client/server environments
Bill Rosenblatt
December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4
Publisher: ACM Press
Full text available: pdf(1.26 MB) Additional Information: full citation, index terms

4 Integrated computational paradigms for flexible client-server communication
Jean-Marc Andreoli, Remo Pareschi
June 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 2

10/817,458

Publisher: ACM Press
Full text available: pdf(159.19 KB) Additional Information: full citation, references, index terms

5 Enterprise information architectures—they're finally changing

Wesley P. Melling
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, index terms

Substantive changes in the business environment—and aggressive initiatives in business process reengineering—are driving corresponding changes in the information technology architectures of large enterprises. Those changes are enabled by the convergence of a long list of maturing new technologies. As one of its many implications, the new IT architecture demands revised assumptions about the design and deployment of databases. This paper reviews the components of the architectura ...

6 On the performance of wide-area thin-client computing

Albert M. Lai, Jason Nieh
May 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(984.32 KB) Additional Information: full citation, abstract, references, index terms

While many application service providers have proposed using thin-client computing to deliver computational services over the Internet, little work has been done to evaluate the effectiveness of thin-client computing in a wide-area network. To assess the potential of thin-client computing in the context of future commodity high-bandwidth Internet access, we have used a novel, noninvasive slow-motion benchmarking technique to evaluate the performance of several popular thin-client computing platf ...

Keywords: Internet2, Thin-client, slow-motion benchmarking, wide-area networks

7 Integrating heterogeneous data sources using the COIL mediator definition langauge

Christian Och, Roger King, Richard Osborne
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2 SAC '00**
Publisher: ACM Press
Full text available: pdf(990.44 KB) Additional Information: full citation, references, index terms

Keywords: CORBA, data source integration and evolution, heterogeneous databases, high-level integration semantics, interoperability, mediators

8 Promises and reality: Server I/O networks past, present, and future

Renato John Recio
August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications NICELI '03**
Publisher: ACM Press
Full text available: pdf(225.62 KB) Additional Information: full citation, abstract, references, index terms

Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these

requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

Keywords: 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, iONIC, iSCSI, iSER

9 Migration Issues and Strategies for Token Ring

Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love
July 1997 **International Journal of Network Management**, Volume 7 Issue 4
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(472.60 KB) Additional Information: full citation, abstract, index terms

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard. © 1997 John Wiley & Sons, Ltd.

10 ServerWORKS manager: network management integrated with enterprise and applications servers

Katherine J. Jones
November 1997 **International Journal of Network Management**, Volume 7 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(261.05 KB) Additional Information: full citation, abstract, index terms

In response to the dilemma of increasing system costs and decreasing personnel costs, Digital Equipment Corporation has bundled ServerWORKS Manager with every Digital Prioris server. This provides the customer with a complete package of integrated network management software tools at no additional charge. © 1997 John Wiley & Sons, Ltd.

11 Session 2: A behavioral approach to worm detection

Daniel R. Ellis, John G. Aiken, Kira S. Attwood, Scott D. Tenaglia
October 2004 **Proceedings of the 2004 ACM workshop on Rapid malcode WORM '04**
Publisher: ACM Press
Full text available: pdf(240.14 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a new approach to the automatic detection of worms using behavioral signatures. A behavioral signature describes aspects of any particular worm's behavior that are common across the manifestations of a given worm and that span its nodes in temporal order. Characteristic patterns of worm behaviors in network traffic include 1) sending similar data from one machine to the next, 2) tree-like propagation and reconnaissance, and 3) changing a server into a client. These behavio ...

Keywords: behavioral signatures, descendant relation, intrusion detection, network application architecture, network worms

12 Distrbuted VEEs: The entropia virtual machine for desktop grids

Brad Calder, Andrew A. Chien, Ju Wang, Don Yang
June 2005 **Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments VEE '05**
Publisher: ACM Press

Full text available: pdf(280.20 KB) Additional Information: full citation, abstract, references, citings, index terms

Desktop distributed computing allows companies to exploit the idle cycles on pervasive desktop PC systems to increase the available computing power by orders of magnitude (10x - 1000x). Applications are submitted, distributed, and run on a grid of desktop PCs. Since the applications may be malformed, or malicious, the key challenges for a desktop grid are how to 1) prevent the distributed computing application from unwarranted access or modification of data and files on the desktop PC, 2) contro ...

Keywords: desktop grids, grid computing, virtual machine

13 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments

Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: pdf(5.07 MB) mov(68:6 MIN) Additional Information: full citation, abstract, references

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

14 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

15 Animating user interfaces using animation servers

Krishna Bharat, Piyawadee Noi Sukaviriya
December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology UIST '93**

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, references, citings, index terms

Keywords: CSCW, animation server, application state, context-sensitivity, extensible interfaces, multimedia, user interface animation

16 Chimera: hypermedia for heterogeneous software development enviroments

Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead

July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3
Publisher: ACM Press

Full text available: pdf(864.32 KB) Additional Information: full citation, abstract, references, citings, index terms

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

17 Windows NT as a personal or intranet server

Larry Press
May 1996 **Communications of the ACM**, Volume 39 Issue 5
Publisher: ACM Press
Full text available: pdf(206.20 KB) Additional Information: full citation, references, index terms

18 A survey and analysis of Electronic Healthcare Record standards

Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci
December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4
Publisher: ACM Press
Full text available: pdf(844.11 KB) Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

19 Modeling: Signature metrics for accurate and automated worm detection

Prem Gopalan, Kyle Jamieson, Panayiotis Mavrommatis, Massimiliano Poletto
November 2006 **Proceedings of the 4th ACM workshop on Recurring malcode WORM '06**
Publisher: ACM Press
Full text available: pdf(244.82 KB) Additional Information: full citation, abstract, references, index terms

This paper presents two simple algorithms, TreeCount and SenderCount that detect a broad range of exploit-based and email worms, respectively. These algorithms, when combined with automated payload fingerprinting, generate precise worm payload signatures. We show that fundamental traffic properties of most worms, such as infected hosts' attempts to propagate the worm, can serve to detect signatures of non-polymorphic worms reliably and rapidly.Our prototype mo ...

Keywords: network worms, traffic analysis, worm signatures

20 Windows interoperability with Linux in the enterprise (WINWILE): a solution to the high cost of licensing, downtime, and security problems

Darren Wilkins, Donald Cole, Michael Nelson

December 2004 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(178.82 KB) Additional Information: full citation, abstract, references

The cost of running an exclusive Microsoft platform can be prohibitive for many organizations. Never ending updates, upgrades, and patches, coupled with what seems to be a constant barrage of viruses and security concerns, can easily lead to an unacceptable amount of downtime. This paper reports on a successful effort to create a heterogeneous system utilizing both Microsoft and non-Microsoft products, including Linux. Initial user feedback has been quite positive, and cost savings can easily be ...

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3 Downsizing OLTP (online transaction processing).

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document 1 of 3 Order Document

Inspec - 1898 to date (INZZ)

Accession number & update
0005974855 20070101.

Title
An object-oriented **database** model for a change management framework in **workgroup** computing systems.

Source
Information and Software Technology, {Inf-Softw-Technol-Netherlands}, 25 May 1998, vol. 40, no. 2, p. 79-92, 31 refs, CODEN: ISOTE7, ISSN: 0950-5849.
Publisher: Elsevier, Netherlands.

Author(s)
Soon-Young-Huh.

Author affiliation
Soon-Young Huh, Graduate Sch. of Manage., Korea Adv. Inst. of Sci. & Technol., Seoul, South Korea.

Abstract
Workgroup computing systems are emerging to support a group of users engaged in common tasks such as group decision making, engineering design, group scheduling, or collaborative writing. Since shared objects in the **workgroup** systems are constantly evolving, providing the users with synchronized and consistent views of the objects is important for achieving improved team productivity. The paper proposes an object-oriented model for a change management framework supporting **workgroup** systems to facilitate managing dependency relationships between shared objects and dependent user views and to coordinate change and propagation activities between the two in **client-server** computing environments. In developing the framework, the study firstly singles out the requirements of change management in **workgroup** systems and conceptualizes the change management mechanisms with transient shared objects. It secondly extends the mechanisms into a persistent transactional **database** computing and **client-server** computing environment. In so doing, it specifically employs an object-oriented **database** paradigm to seamlessly capture transient and persistent transactional objects in a single formalism and presents a set of well-modularized abstract object constructs facilitating dependency management and change notification mechanisms for

10/817,658

workgroup computing systems. The proposed framework is developed on the basis of a commercial object-oriented **database** management system (ODBMS) called OBJECTSTORE using the C++ programming language.

Descriptors
CLIENT-SERVER-SYSTEMS; DP-MANAGEMENT; GROUPWARE; MANAGEMENT-INFORMATION-SYSTEMS; MANAGEMENT-OF-CHANGE; OBJECT-ORIENTED-DATABASES; TRANSACTION-PROCESSING.

Classification codes
C6130G Groupware*;
C6160J Object-oriented-databases;
C6150N Distributed-systems-software;
C0310 EDP-management.

Keywords
object-oriented-database-model; change-management-framework; **workgroup-computing-systems;** group-decision-making; engineering- design; group-scheduling; collaborative-writing; synchronized-object-views; consistent-object-views; team-productivity; object-oriented-model; dependency-relationships; dependent-user-views; propagation-activities; change-activities; **client-server-computing-environments;** transient-shared-objects; **persistent-transactional-database-computing;** transactional-objects; well-modularized-abstract-object-constructs; dependency-management; change-notification; OBJECTSTORE; C++-programming-language.

Treatment codes
P Practical.

Language
English.

Publication type
Journal-paper.

Availability
SICI: 0950-5849(19980525)40:2L.79:OODM; 1-I.
CCCC: 0950-5849/98/$19.00.
Publisher identity number: S0950-5849(98)00035-4.

Publication year
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Publication date
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Inspec - 1898 to date (INZZ)

Accession number & update
0005413145 20070101.

Title
Middleware and three-tier **client/server** development.

Source
Dr. Dobb's Journal, {Dr-Dobb-s-J-USA}, Nov. 1996, vol. 21, no. 11, p. 16-18, 20, 22, 92, 94, 0 refs,
CODEN: DDJSDM, ISSN: 1044-789X.
Publisher: Miller Freeman, USA.

Author(s)
Carone-T-E.

Author affiliation

Carone, T.E., Innovative Comput. Group, Andersen Consulting, Chicago, IL, USA.

Abstract

Three-tier **client/server** solutions have been moving from small **workgroup** environments to large, mission-critical environments that span an entire business enterprise. A key aspect of distributed processing is **transaction** management, in which a business is broken up into a set of processes, each of which consists of several business events. Events can consist of one or more transactions that can span one or more **database** resource managers. Therefore, it is essential that the atomicity, consistency, isolation, and durability properties of transactions be maintained. This maintenance is synergistically achieved by the DBMS, applications, and **transaction** manager. A **transaction** manager is **server-based** software that enables the development and management of application programs. It is the middleware that enhances the three-tier **client/server** architecture. The **transaction** manager provides access to services on one or more application **servers,** manages the commitment and/or rollback of transactions, and the demarcation of the beginning and end of a **transaction** within an application program. It also acts as a message **server** for application programs. The **transaction** manager provides for reliability, availability, and recovery of online **transaction-**processing (OLTP) applications and supports a scalable architecture.

Descriptors

CLIENT-SERVER-SYSTEMS; DATABASE-MANAGEMENT-SYSTEMS; SOFTWARE-ENGINEERING; TRANSACTION-PROCESSING.

Classification codes

C6150N Distributed-systems-software*;
C6130 Data-handling-techniques;
C6110B Software-engineering-techniques;
C6160 Database-management-systems-DBMS.

Keywords

three-tier-client/server-development; middleware; distributed- processing; **transaction-management;** business-events; **database-** resource-managers; DBMS; **transaction-manager; server-based-software;** application-program-development; application-program-management; **application-servers; transaction-rollback; transaction-commitment; message-server;** reliability; **online-transaction-processing;** recovery.

Treatment codes

P Practical.

Language

English.

Publication type

Journal-paper.

Availability

SICI: 1044-789X(199611)21:11L.16:MTTC; 1-E.

Publication year

1996.

Publication date

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Inspec - 1898 to date (INZZ)

Accession number & update

0004192347 20070101.

Title

Downsizing OLTP (online **transaction** processing).

Source

Database Review, **{Database-Rev-USA},** April 1992, vol. 4, no. 2, p. 1, 8, 0 refs, CODEN: DARVEH, ISSN: 1042-2595, USA.

Author(s)

White-C.

Abstract

Although much of the **database** industry is focused on the use of networked workstations and **database servers** as an alternative to using centralized high-end mainframe systems, many of the applications being deployed in these decentralized **workgroup** environments are oriented toward end-user informational processing applications, rather than high-performance operational applications. Potential users of downsized systems would also like to use these **workgroup** systems for OLTP, but are uncertain as to whether the technologies and products in these environments can be used for such processing. Many of the technologies used on **workgroup** systems fall under the general heading of **client/server.** The author discusses two different techniques used in such environments: remote data access and distributed programs.

Descriptors

DISTRIBUTED-DATABASES; INFORMATION-RETRIEVAL; TRANSACTION-PROCESSING.

Classification codes

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